

## CLAIMS

What is claimed is:

- 1           1.     A method comprising:  
2           extracting at least one visual feature from a document, the document  
3     having a plurality of pages;  
4           ranking the pages in a document based on the at least one visual feature;  
5     and  
6           display pages based on ranking.

- 1           2.     The method of claim 1 wherein a plurality of visual features are  
2     used in ranking and at least one visual feature is weighted.

- 1           3.     The method of claim 1 wherein the visual feature is one of a  
2     picture, a text block, a character size, a character style, and a color

- 1           4.     The method of claim 1 wherein a visual feature is weighted based  
2     on gradations of the visual feature.

- 1           5.     The method of claim 1 wherein a visual feature is weighted based  
2     on location of the visual feature on a page.

1           6.       The method of claim 1 wherein the visual feature is represented in  
2 a vector form.

1           7.       The method of claim 1 wherein the visual feature is used as a  
2 distance measure between a first document and a second document.

1           8.       The method of claim 1, further comprising clustering of a plurality  
2 of pages within a document.

1           9.       The method of claim 1, further comprising using visual features to  
2 reveal a transition from a first page to a second page of a document.

1           10.      The method of claim 1, wherein ranking of the pages includes a  
2 correction mechanism.

1           11.      The method of claim 1, wherein a scheme showing one of a  
2 plurality of pages in a document and a plurality of documents is by one of a  
3 linear display, a line of icons, and as a stack.

1           12.      A computer system comprising:  
2 a display;  
3 a processor coupled to the display; and

4 a memory coupled to the processor and having stored therein a routine,  
5 which when executed by the processor, causes the processor to generate display  
6 data through:

7 extracting at least one visual feature from a document, the  
8 document having a plurality of pages,  
9 ranking the pages in the document according to the at least one  
10 visual feature,  
11 selecting a page for representing a document according to a rank,  
12 and  
13 displaying the selected page as the display data.

1 13. The computer system of claim 12 wherein a plurality of visual  
2 features are used in ranking and at least one visual feature is weighted.

1 14. The computer system of claim 13 wherein the visual feature is one  
2 of a picture, a text block, a character size, a character style, and a color.

1 15. The computer system of claim 13 wherein a visual feature is  
2 weighted based upon gradations of the visual feature.

1 16. The computer system of claim 13 wherein the visual feature is  
2 represented in a vector form.

1           17.     The computer system of claim 13 wherein the visual feature is used  
2     as a distance measure between a first document and a second document.

1           18.     The computer system of claim 12, wherein generating display data  
2     further comprises clustering of a plurality of pages within a document.

1           19.     The computer system of claim 12, wherein a plurality of pages are  
2     selected and generating display data further comprises using visual features to  
3     reveal a transition from a first page to a second page of a document.

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1           ~~20.~~  
            ~~21.~~     The computer system of claim 12, wherein ranking the pages  
2     includes a correction mechanism.

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1           ~~21.~~  
            ~~22.~~     The computer system of claim 12, wherein a scheme showing one  
2     of a plurality of pages in a document and a plurality of documents is by one of a  
3     linear display, a line of icons, and as a stack.

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1           ~~22.~~  
            ~~23.~~     An article of manufacture having at least one machine readable  
2     storage media containing executable program instructions which when executed  
3     by a digital processing system cause the digital processing system to:  
4             extract at least one visual feature from a document, the document having  
5     a plurality of pages,

rank pages in the document based on said at least one visual feature,  
select the pages for representing a document based on ranking, and  
display selected pages.

1 <sup>RI.124</sup> ~~23.~~ 24. The machine readable storage media of claim 23, wherein a  
2 plurality of visual features are used in ranking and at least one visual feature is  
3 weighted.

1 <sup>RI.126</sup> ~~24.~~ 25. The machine readable storage media of claim 23, wherein the visual  
2 feature is one of a picture, a text block, a character size, a character style, and a  
3 color.

1 <sup>RI.126</sup> ~~25.~~ 26. The machine readable storage media of claim 25, wherein a visual  
2 feature is weighted based upon gradations of the visual feature.

1 <sup>RI.126</sup> ~~26.~~ 27. The machine readable storage media of claim 23, wherein the visual  
2 feature is represented in a vector form.

1 <sup>RI.126</sup> ~~27.~~ 28. The machine readable storage media of claim 23, wherein the visual  
2 feature is used as a distance measure between a first document and a second  
3 document.

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The machine readable storage media of claim 23, further

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# 1

The machine readable storage media of claim 23, further

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The machine readable storage media of claim 23, wherein ranking

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The machine readable storage media of claim 23, wherein a scheme

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A method comprising:

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